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IZUMI MASAHIRO(54) RAPID START TYPE FLUORESCENT LAMP
AND LIGHTING SYSTEM USING SAME

(57) Abstract:

PURPOSE: To suppress occurrence of blackening and yellow spotting phenomenon, suppress the rise of starting voltage, and provide a luminaire using a rapid start type fluorescent lamp with improved life property.

CONSTITUTION: An electrode 4 is placed in both end part of a bulb made of glass and at the same time mercury and a rare earth gas are sealed in the inside and a transparent conductive coating 3 is formed in the inside of the bulb and a phosphor coating 2 is formed on the transparent conductive coating. A ultraviolet ray absorptive protective coating 10, which consists of finely granulated metal oxide 12 containing zinc oxide and having ultraviolet ray absorbing function and is made to have $0.2\mu\text{m}$ or thicker and $1.5\mu\text{m}$ or thinner average thickness, is formed between the transparent conductive coating 3 and the phosphor coating 2. Consequently, since the ultraviolet ray absorptive protective coating suppress transmission of ultraviolet ray and the conductive coating is protected from ultraviolet ray, decrease of resistance of the conductive coating is suppressed and blackening and yellow spotting phenomenon is prevented.

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